

Datasheet for ABIN3044521  
**anti-FcRn antibody (AA 56-291)**

## 2 Images

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## Overview

Quantity:	100 µg
Target:	FcRn
Binding Specificity:	AA 56-291
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FcRn antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for IgG receptor FcRn large subunit p51(FCGRT) detection. Tested with WB, IHC-P in Human.
Immunogen:	E. coli-derived human FCGRT recombinant protein (Position: Q56-E291). Human FCGRT shares 70.2% and 68.9% amino acid (aa) sequence identity with mouse and rat FCGRT, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for IgG receptor FcRn large subunit p51(FCGRT) detection. Tested with WB, IHC-P in Human.  Gene Name: Fc fragment of IgG receptor and transporter Protein Name: IgG receptor FcRn large subunit p51
Purification:	Immunogen affinity purified.

## Target Details

Target:	FcRn
Alternative Name:	FCGRT ( <a href="#">FcRn Products</a> )
Background:	<p>IgG receptor FcRn large subunit p51 is a protein that in humans is encoded by the FCGRT gene. This gene encodes a receptor that binds the Fc region of monomeric immunoglobulin G. The encoded protein transfers immunoglobulin G antibodies from mother to fetus across the placenta. This protein also binds immunoglobulin G to protect the antibody from degradation. In addition, it is postulated that long-range cis inactivation of the FCGRT gene is responsible for hypercatabolism of IgG in myotonic dystrophy. The FCGRT gene is closely situated to the DMPK gene, which is mutant in DM.</p> <p>Synonyms: Alpha chain antibody Fc fragment of IgG, receptor transporter, alpha antibody FCGRN_HUMAN antibody FCGRT antibody FcRn alpha chain antibody FcRn antibody FCRN, alpha chain antibody IgG Fc fragment receptor transporter alpha chain antibody IgG Gc receptor antibody  IgG receptor FcRn large subunit p51 antibody IgG receptor FcRn large subunit p51 precursor antibody Immunoglobulin receptor, intestinal, heavy chain antibody Neonatal Fc receptor antibody</p>
Gene ID:	2217
UniProt:	<a href="#">P55899</a>
Pathways:	<a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a>

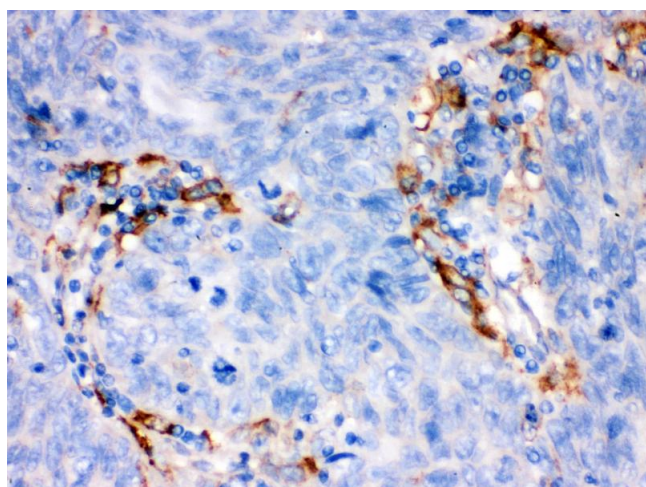
## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

## Handling

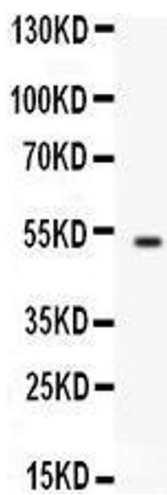
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Images



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** FCGRT was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti-FCGRT Antigen Affinity purified polyclonal antibody at 1 µg/mL. The immunohistochemical section was developed using SABC method



**Western Blotting**

**Image 2.** Western blot analysis of FCGRT expression in A549 whole cell lysates (lane 1). FCGRT at 50KD was detected using rabbit anti- FCGRT Antigen Affinity purified polyclonal antibody at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method